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UNITED STATES DEPARTMENT OF AGRICULTURE
Bureau of Agricultural Economics

In cooperation with

NEW YORK STATE DEPARTMENT OF AGRICULTURE AND MARKETS

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APPLE MANUFACTURES

THE USE OF APPLES IN CIDER MILLS

EVAPORATORS AND CANNERIES IN NEW YORK STATE

1937-50

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APPLE MANUFACTURES, 1937-50

This report presents statistics on the apple-manufacturing industry in New York State for each crop year starting with 1937.

Estimates of apple production and value of sales in the commercial counties of New York have been as follows:

Apples: Production and value of sales in commercial counties, New York, 1937-50					
Year	: Production	: Value of sales:	Year	: Production	: Value of sales
	(1000 bu.)	(1000 dollars):		(1000 bu.)	(1000 dollars)
1937	19,439	10,395	1944	15,795	32,036
1938	13,954	10,707	1945	2,160	7,392
1939	24,011	10,871	1946	15,116	33,422
1940	12,865	9,528	1947	15,045	19,559
1941	16,302	14,666	1948	11,750	21,624
1942	18,200	20,288	1949	20,090	19,168
1943	12,750	29,335	1950	18,700	21,492

A total of nearly 10 million bushels of apples were received by New York State processing plants from the 1950 crop, slightly more than the previous record quantity from the 1949 crop. Over half of the 1950 crop apples used by these manufacturers were for canned apples and applesauce, about one-third for cider and apple juice with a tenth of the total receipts being used for other products such as dried apples, frozen apples, apple butter, etc. Statistics for the industry of daily preparation and shipment of apples to pie bakers are not included here except incidentally as it is carried on in or near areas of production. It has reached its highest development in New York City, using open market or contract purchases of apples the year round.

In addition to the wide variety of recognized food products, pomace from cider mills and skins and cores from canning factories yield substantial amounts of dried residue used for the extraction of pectin.

During the period covered by the apple manufactures statistics, the number of establishments has decreased. Less than 300 plants have operated in each of the last six crop seasons whereas ten years earlier over 500 were operating. Many small plants, especially cider mills and evaporators established when apple orchards were widespread throughout the State, have gone out of use premanently because of fire, conversion to other uses, abandonment or the disappearance of orchards in many areas. There appears to be a trend toward a smaller number of plants, having better equipment and making a wider variety of products than in the past.

The apple manufacture information in this publication was gathered from processors mainly by mailed questionnaires supplemented in a few cases by personal visitation by representatives of the Department of Agriculture and Markets, and with estimates for a few small concerns from whom reports were not received.

Cordial appreciation is expressed for the splendid cooperation of the people in the apple processing industries.

This publication was prepared under the direct supervision of Wm. I. Bair.

R. L. GILLET, Agricultural Statistician and
Director of Agricultural Statistics.

Table 1.- Receipts and utilization of apples at manufacturing plants, New York, crops of 1937-50

Crop year	Net receipts 1/	Receipts from other states (included in preceding column)	Used for cider and apple juice	Used for canning or applesauce
bushels				
1937	7,592,200	10,600	4,555,000	1,657,700
1938	3,861,900	10,500	2,639,100	790,100
1939	8,361,900	7,400	5,101,500	1,987,800
1940	4,195,000	10,500	2,573,700	1,351,500
1941	7,328,300	17,500	3,993,600	2,580,600
1942	7,907,500	62,000	3,712,500	2,751,700
1943	5,611,300	98,400	3,037,900	1,865,400
1944	7,607,800	479,400	4,278,800	2,010,200
1945	1,418,000	806,500	873,000	440,800
1946	8,723,800	495,100	4,364,400	3,595,500
1947	6,214,000	99,100	2,920,000	2,839,800
1948	4,552,000	173,600	1,788,300	2,271,000
1949	8,877,200R	24,300	3,806,000R	4,289,500
1950	9,676,800	67,000	3,122,500	5,472,700

Continued

Table 1.- Receipts and utilization of apples at manufacturing plants, New York, crops of 1937-50 - continued

Crop year	Used for drying	Used for freezing 2/	Used for other products 2/ 3/
bushels			
1937	1,284,800		94,700
1938	373,900		58,800
1939	1,207,100		65,500
1940	199,400		70,400
1941	536,700		217,400
1942	1,120,800	39,300	283,200
1943	502,400	113,800	91,800
1944	441,100	577,400	300,300
1945	-	76,800	27,400
1946	114,900	459,400	189,600
1947	108,800	191,500	153,900
1948	39,600	169,600	283,500
1949	221,700	347,500	212,500
1950	260,900	510,100	310,600

1/ Apples received at a plant and then transferred to another plant for processing are included only in plant where processed. One bushel is assumed to equal 48 pounds.

2/ Frozen apples were first asked separately in 1944. The 1943 and 1942 totals for this item as published may be incomplete. For 1941 and earlier years quantities used for frozen apples were not separated from "other products".

3/ Among other products for which these apples were used are jelly, apple butter, mincemeat, fresh sliced apples for pies in upstate areas and in 1941 and earlier years frozen apples. Included also are small amounts of loss and shrinkage and some apples sorted out for sale as fresh fruit.

R - Revised.

Table 2.- Cider and dried apple products made, New York, from crops of 1937-50

Crop year	Cider and juice pressed 1/	Dried apples	Dried apple chops	Dried skins and cores	Dried pomace 2/
	Gallons		Pounds		
1937	19,171,800	7,101,200	727,000	not available	2,426,300
1938	10,840,800	2,147,700	192,300	in	104,000
1939	21,835,600	7,076,700	461,700	1937 - 40	612,000
1940	10,659,000	869,000	469,400		454,200
1941	17,863,400	3,056,700	284,500	595,300	823,900
1942	17,235,500	6,473,500	356,700	1,461,100	2,126,000
1943	14,188,100	2,736,200	233,400	649,800	758,000
1944	19,725,300	2,489,700	194,000	536,100	1,168,000
1945	3,565,900	-	-	-	67,000
1946	19,103,000	721,100	67,000	151,000	1,570,000
1947	13,230,400	648,600	-	-	720,500
1948	7,714,200	265,500	-	-	3,044,200
1949	19,695,500 R	1,341,300	58,800	-	5,630,000
1950	18,614,200	1,363,000	190,000	-	4,605,900

1/ Quantities disposed of as apple juice were: 1940 - 3,360,300 gallons; 1941 - 3,620,800; 1942 - 3,685,000; 1943 - 3,456,100; 1944 - 6,262,600; 1945 - 1,840,600; 1946 - 7,611,200; 1947 - 3,657,100; 1948 - 2,607,100; 1949 - 7,699,700; 1950 - 7,240,500. Separate data on "apple juice" were not secured prior to 1940.

2/ Years 1937-40 include dried skins and cores, as separate data were first asked in 1941.

R - Revised.

Table 3.- Average price paid for apples, by type of manufacturing plant, New York 1937-50 1/

Crop year	Cider mills	Average price paid for apples by		
		Evaporators	Canneries	All plants
		Dollars per 100 pounds		
1937	.22	.33	.43	.29
1938	.26	.28	.58	.34
1939	.18	.27	.43	.26
1940	.28	.29	.75	.47
1941	.34	.57	1.19	.72
1942	.44	1.46	1.59	1.05
1943	1.13	2.86	3.12	2.12
1944	1.04	2.96	3.21	2.06
1945	2.77	-	6.69	4.40
1946	1.21	1.88	3.91	2.57
1947	.67	.89	2.58	1.72
1948	1.09	1.22	2.87	2.16
1949	.51	.77	1.85	1.25
1950	.58	1.17	2.66	1.95

1/ These prices are the average of "average or prevailing prices" as reported, and weighted by the importance of the various districts.

Table 4.- Receipts and utilization of apples by type of manufacturing plants, New York, crops of 1949 and 1950

Item	Cider mills		Other processors		All plants	
	1949	1950	1949	1950	1949	1950
<u>bushels</u>						
Receipts:						
Net <u>1</u> /	1,982,200R	2,297,100	6,895,000	7,379,700	8,877,200R	9,676,800
From other states (included above)	5,900	21,400	18,400	45,600	24,300	67,000
Utilized for						
Cider and juice	1,982,200R	2,297,100	1,823,800	825,400	3,806,000R	3,122,500
Canning and apple sauce	-	-	4,289,500	5,472,700	4,289,500	5,472,700
Drying	-	-	221,700	260,900	221,700	260,900
Freezing	-	-	347,500	510,100	347,500	510,100
Other products	-	-	212,500	310,600	212,500	310,600

1/ Apples received at a plant and then transferred to another plant for processing are included only in plant where processed.

R - Revised.

Table 5.- Apples received and cider and juice made by districts and type of plant, New York, crops of 1949 and 1950

District <u>1/</u> and year	Apples received at		Cider and juice made at	
	: Cider mill	: Other processors:	: Cider mill	: Other processors:
	bushels		gallons	
		Total		Total
Ontario				
1949	469,900	6,697,200	2,344,700	11,328,300
1950	1,055,100	7,702,300	6,946,400	13,673,000
				13,599,200
Mid-western				
1949	157,100	234,700	741,000	741,000
1950	105,500	284,900	548,600	548,600
Hudson				
1949	500,000	86,500	1,932,900	1,932,900
1950	581,600	63,600	2,172,500	2,172,500
Champlain				
1949	13,800R	-	40,000R	40,000R
1950	6,200	-	49,800	49,800
Other				
1949	841,400	346,500	3,304,800	3,308,600
1950	548,700	384,000	2,151,400	92,700
				2,244,100
State				
1949	1,982,200R	6,895,000	8,363,400R	11,332,100
1950	2,297,100	7,379,700	11,868,700	6,745,500
				18,614,200

1/ Districts as used in this publication include counties as listed below:

- Ontario District -Niagara, Orleans, Monroe, Wayne.
- Mid-western District -Erie, Genesee, Wyoming, Livingston, Ontario, Yates, Seneca, Tompkins.
- Hudson District -Columbia, Dutchess, Putnam, Westchester, Greene, Ulster, Orange, Rockland.
- Champlain District -Clinton, Essex.
- Other districts -All counties not included above.

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Table 6.- Apple manufacturing establishments in operation and establishments making specified products, New York, crops of 1937-50

Crop year	Establishments in operation	Cider and juice	Establishments making Dried apple products	Other apple products
			1/ 2/	
1937	640	578	47	26
1938	500	454	29	22
1939	573	507	45	25
1940	427	392	19	24
1941	461	418	26	25
1942	374	318	42	25
1943	283	243	33	25
1944	300	250	30	32
1945	63	56	2	10
1946	261	221	13	35
1947	293	244	15	39
1948	249	212	12	34
1949	285R	244R	19R	31R
1950	265	222	21	37

1/ A total of the establishments making cider and juice, dried apple products or other apple products exceeded the number of establishments in operation, as an establishment may make more than one of the listed products. "Custom" and "Commercial" cider mills are included in number of establishments.

2/ Other apple products include canned apples or applesauce, frozen apples, apple butter, mincemeat, fresh sliced apples for pies in upstate areas, etc.

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Table 7.- Apples received from other states at New York processing plants, crops of 1948, 1949 and 1950

	1948	1949	1950
	<u>bushels</u>		
<u>Regions of origin</u> 1/			
New England States	2,400	11,000	34,500
Other Eastern States	90,000	13,300	32,500
Central States	2,100	—	—
Canada	79,100	—	—
<u>Total</u>	<u>173,600</u>	<u>24,300</u>	<u>67,000</u>
<u>District in New York in which received</u> 2/			
Ontario	114,900	8,300	16,100
Mid-western	1,700	—	4,300
Hudson, Champlain and other	57,000	16,000	46,600
<u>Total</u>	<u>173,600</u>	<u>24,300</u>	<u>67,000</u>

1/ States grouped to prevent disclosure of individual operations.

2/ For counties included in each district, see footnote 1, table 5.

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